



STANDARDS

Rating and performance	IEC 60034-2
Efficiency class	IEC 60034-30
Methods for determining losses and efficiency	IEC 60034-2
Classification of degrees of protection (IP code)	IEC 60034-2
Methods of cooling (IC code)	IEC 60034-6
Classification of type of construction and mounting arrangement (IM code)	IEC 60034-7
Terminal markings and direction of rotation	IEC 60034-8
Noise limits	IEC 60034-2
Starting performance of rotating electrical machines	IEC 60034-12
Mechanical vibration	IEC 60034-2
Standard voltage	IEC 60038
Electromagnetic compatibility	2004/108/CE
Machinery directive	2006/42/CE
Low voltage directive	2006/95/CE
Establishing a framework for the settings of ecodesign requirements for energy-related products	2009/125/CE

RATING - NOMINALS

Motor code	IE2R1003A11002	Voltage (V)	400 Δ
Serial no.	PROTOTYPE	Rated current (A)	17.2
Motor type	IE2R1003A-999	Power factor (cos φ)	0,84
Rated output (kW)	9,2	Efficiency (η %)	90,78
Frame	132M	Insulation class	F
Poles	2	Phase	3
Frequency (Hz)	50	Rating duty	S1
Rated speed (min ⁻¹)	2910	Motor start	

CHARACTERISTICS

Full load torque (Nm)	30,07	Noise level (Lpa) (dBA)	---
Break down torque (p.u)	3,2	Vibration grades	G 1,8
Loked rotor torque (p.u)	3,4	Thermal protections	---
Starting current (p.u)	8,4	Anticondensation heater	----
No-load current (A)	7,2	Special winding treatment	In a vacuum
Phase resistance T 20 ° C(Ω)	0,92	Bearing drive end	6308-ZZ
Temperature rise	F	Bearing no drive end	6308-ZZ
Protection degree	IP55	Grease	NSK-ENS
Seal ring	v-ring	Finishing paint	Blue RAL 5010
Moment of inertia J(kgxm ²)	0,0285	Bolts and screws - Steel	Zincked
Weights (Kg)	50	Gasket	Gum
Mountings and positions	IM2001 (B35)	Frame material	Aluminium
Rotation direction drive end	R	Shields material	Caston iron

PERFORMANCES (V400 Hz 50)

% of Rated Load	25%	50%	75%	100%	125%	150%
Rated output (kW)	2,3	4,6	6,9	9,2	11,5	13,8
Full load torque (Nm)	7,46	14,93	22,39	30,07	37,32	44,79
Power factor (Cos φ)	0,50	0,70	0,80	0,84	0,86	0,87
Efficiency (%)	79,10	88,17	90,03	90,78	89,83	88,04
Speed (min ⁻¹)	2982	2966	2946	2910	2903	2873
Current (A)	10,9	12,8	15,7	17,2	22,5	26,5

NOTES:

IE2